

MILITARY SPECIFICATION SHEET

ELECTRON TUBE, RECEIVING

TYPE 5763

The complete requirements for procuring the electron tube described herein shall consist of this document and the latest issue of Specification MIL-E-1.

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

DESCRIPTION: Pentode, miniature, 175 MHz, beam-power amplifier

Outline --- 6-3 (EIA)

Base --- E9-1

Envelope --- T6-1/2

Cathode --- Coated unipotential

Base connections:

Pin No.	---	1	2	3	4	5	6	7	8	9
Element	---	a	nc	g3	h	h	g2	k	g1	g1

ABSOLUTE-MAXIMUM RATINGS:

Parameter:	Ef	Eb	Ec1	Ec2	Ec3	Ib	Ic1	Ik	Pp	Ehk	Pg2	Pi	TE	Alt
Unit:	V	Vdc	Vdc	Vdc	Vdc	mAdc	mAdc	mAdc	W	v	W	W	°C	ft
Maximum:	6.6	300	-125	250	0	50	5.0	65	12	100	2.0	15	250	Note 1
Minimum:	5.4	---	---	---	---	---	---	---	---	---	---	---	---	---

TEST CONDITIONS: 6.0 250 -7.5 250 0 --- --- --- --- --- --- --- --- --- ---

GENERAL:

Qualification - Required

(C) denotes changes

5763

METHOD	REQUIREMENT OR TEST	CONDITIONS	AQL (PERCENT DEFECTIVE)	INSPECTION LEVEL OR CODE	SYMBOL	LIMITS		UNIT
						MIN	MAX	
	<u>Quality conformance inspection, part 1</u>							
1256	Electrode current (anode)		0.65	II	Ib	33	57	mAdc
1236	Power oscillation	Eb = 300 Vdc; Rg1 = variable; Ib = 58 mAdc; F = 135 MHz	0.65	II	Po	1.5	---	W
1231	Emission	Eb = Ec1 = Ec2 = 30 Vdc; Ec3 = 0 (see note 2)	0.65	II	Is	170	---	mAdc
1266	Total grid current	Rg1 = 0.1 Meg (see note 2)	0.65	II	Ic	0	-2.0	$\mu$ Adc
1201	Short and discontinuity detection		0.4	II	---	---	---	---
	<u>Quality conformance inspection, part 2</u>							
1031	Low-frequency vibration	Ec1 = -15 Vdc; Rp = 2,000 ohms	---	---	Ep	---	500	mVac
1301	Heater current		---	---	If	690	810	mAdc
1336	Heater-cathode leakage		---	---	Ihk	---	50	$\mu$ Adc
1256	Electrode current (screen)		---	---	Ic2	---	10	mAdc
1331	Direct-interelectrode capacitance	No shield	6.5	Code E	{ Cgp Cin Cout	{ --- 8.0 3.8	0.3 11.0 5.2	pF pF pF
1211	Insulation of electrodes							
(C) 1121	Base strain		4.0	S3	---	---	---	---
(C) 2126	Glass strain		4.0	I	---	---	---	---
1105	Permanence of marking		---	---	---	---	---	---
	<u>Quality conformance inspection, part 3</u>							
1501	Intermittent life test	Group A; Eb = 300 Vdc; Ec2 = 300 Vdc; Rg1 = 17,000 ohms; Rg2 = 32,000 ohms; Ib = 45 mAdc; F = 120 MHz	---	---	---	---	---	---
---	Intermittent life-test end points (500 hours)	Power oscillation	---	---	Po	1.0	---	W

NOTES:

1. See "Reduced pressure (altitude) rating", and altitude, maximum peak voltage.
2. This test to be performed at the conclusion of the holding period.

Custodians:

Army - EL  
Navy - EC  
Air Force - 80

Preparing activity: Navy - EC

Agent: DSA - ES

(Project 5960-2481)

Review activities:

Army - MU  
Air Force - 17  
DSA - ES

User activities:

Army - WC  
Navy - AS, MC, CG, SH  
Air Force - 19

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